

**CLAIMS**

1. A Pharmaceutical formulation, administered orally after dispersing in water at therapeutic doses which comprises of,
  - a. alendronate microparticles coated with a polymer insoluble at pH 6 – 7.5, and alginic acid or sodium alginate or admixtures thereof, where
  - b. alendronate dissolves in 900 ml 0.1 N HCl at the rate of not less than 85% of within 30 minutes at the range of pH 1 – 4,
  - c. the dispersion in a glass of 250 ml. water at the degree of 25<sup>0</sup>C contains no dissolved alendronate at pH 6 – 7.5 or at the most 10% w/v of alendronate dissolved in 3 minutes.
2. The pharmaceutical formulation as claimed in claim 1, comprises lubricants, diluents, flavors and sweeteners or their mixture thereof.
3. The pharmaceutical formulation as claimed in claim 2, where in the diluent is preferably selected from lactose and microcrystalline cellulose or admixtures thereof.
4. The pharmaceutical formulation as claimed in claim 2, where in the sweetener is selected from, aspartame, potassium acesulfame, monoammonium glycyrrhizinate, sodium saccharine, sucrose and its derivatives, polyols and their derivatives, are preferably used alone or in combination.
5. The pharmaceutical formulation as claimed in claim 1, where in the polymers are selected from, preferably polymethacrylates, polyvinyl acetate diethylaminoacetate and poly butyl methacrylate / 2-dimethylamino-ethyl methacrylate / methyl methacrylate copolymers or their mixtures thereof.
6. The pharmaceutical formulation as claimed in claim 1, where in the polymers are, Poly(butyl methacrylate, (2-dimethyl aminoethyl) methacrylate, methyl methacrylate) 1:2:1 is preferred.
7. The pharmaceutical formulation as claimed in claim 1, which is dispersed in a glass of 250 ml. water at the degree of 25<sup>0</sup>C at pH 6 – 7.5, contains alendronate in between 0.001% w/v - 3% w/v.

8. The pharmaceutical formulation as claimed in claim 1 where in the alendronate is alendronate monosodium trihydrate or pharmaceutically acceptable derivatives.
9. The pharmaceutical formulation as claimed in claim 1, which is dispersed in a glass of 250 ml. water at the degree of 25<sup>0</sup>C at pH 6 – 7.5, contains alginic acid or sodium alginate or their mixtures in between 0.001% w/v - 2% w/v.

10

15

20

25

30

35

40